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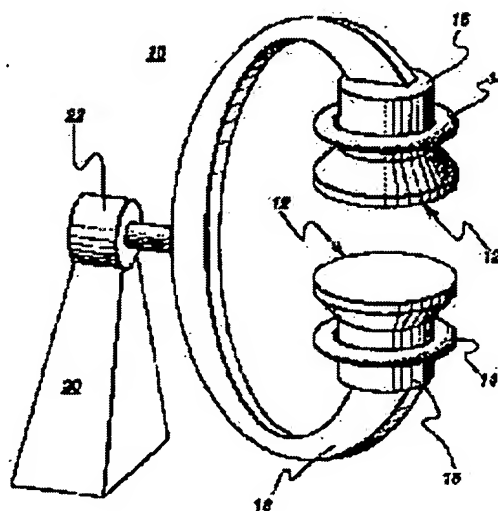
(54) MAGNET SUITABLE FOR OPEN-TYPE MAGNETIC RESONANCE IMAGING

(57)Abstract:

PURPOSE: To improve the homogeneity of a magnetic field in large imaging volume by an open-type magnet which is provided with two magnet assembly arranged in parallel at an interval, so as to form a working space.

CONSTITUTION: Each magnet assembly 12 is constituted of a circular superconducting coil 14 and a ferromagnetic magnetic field reinforcer 16, surrounded by the coil 14. Each magnetic field reinforcer 16 is an almost cylindrical ferromagnetic magnetic piece, surrounded by a superconducting coil 14. The magnetic assembly 12 is fitted to a C-shape supporting frame 18, which is attached rotatably to a pedestal member 20.

The magnetic field reinforcer 16 is molded so as to maximize uniformity in the imaging volume, while



maintaining its weight and volume at minimum values, and its specific shape is determined by a nonlinear optimizing design method.

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